


ABSTRACT

This invention is related to a production method of a branched polymer

5 which comprises polymerizing a macromonomer [I],
 said macromonomer [I] being a vinyl polymer obtainable
by radical polymerization and terminally having one
polymerizable carbon-carbon double bond-containing group per
molecule.

10  Furthermore, by producing the macromonomer by living
radical polymerization, in particular atom transfer radical
polymerization, it becomes possible to produce the above
polymers or gels having well controlled side chain molecular
weights.